BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Zone, Electrical Division

Name of Work:-Detaild Estimate for Providing LED Street Lights in Ward No-5 Yelahanka Zone

Ward No.5 **Estimate No:-** AEE/EST/05/2017-18 **For Rs. 1000000.00**

Sl No	Description Of Work	Qty	Rate	Unit	Amount
	KPWD (Ele) S.R.2014-15				
1 22/ 4.16	Supplying High pressure sodium vapour street light luminaire suitable for use with high pressure sodium vapour lamp with integrated control gear and grey colr powder coated. The fitting shall be non corrosive pressure die cast aluminium housing with high purity anodized aluminium housing with EPDM Gaskets suitable for Outer Dia of pole 40 mm -60 mm. Cable entry through a cable gland with toggle clips. IP65 protection for both optical & electrical compartment. Bottom cover may be with poly carbonate/tempered/ toughened glass.Luminaire efficiency should be > 60 % and ambient temperature >35 deg C. High Intensity Discharge electro magnetic ballast with copper winding of Orthocyclic winding coil. Class H insulated dual coated copper wire. Complaince to IEC 61347-2-9 Safety & IEC 60923-Performance. Winding Temperature rise " T=70 deg C. Luminaire shall be suitable to operate on 230/250 V 50 Hz AC supply finish including wiring , Ignitor, condenser, SS Toggles for opening front hingeable glass 250 Wattsa) Group 'A'	50	6555.00	Nos	327750.00
2. 27/4.36.1	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools.				
	LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II.LED Streetlight 65watts	28	18720.00	Nos	524160.00

3 108/ 17.1	Supplying and Fixing of.....mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires. 17.1.2)Using 32mm dia G.I.pipe	73	848.00	Nos	61904.00
4 12/ 2.12.2	Wiring for lighting / power circuit using one of pvc insulated 1100v grade stranded aluminum unsheathed wire single core cable in open or concealed system of wiring as per IS - 694 : 1990 4sq mm	100	7.50	Mtrs	750.00
5. 18/ 3.15.25	32 Amps Bakelite DP	19	128.00	Nos	2432.00
	Total Rs				916996.00
	KRIDL Charges 9.00 %				83004.00
	Mislenious				
	TOTAL Rs				**1000000.00**

CERTIFICATE :-

1. The place was inspected and the work is essential.
2. The provision made in the estimate are adequate and necessary and the work comes in the BBMP limit and is legitimate Charges on the BBMP funds.
3. The estimate is based on KPWD (Ele) S.R.2014-15 Rates

Assistant Engineer (Ele)
Yelahanka Zone

Asst. Executive Engineer (Elecl)
Yelahanka Zone

EXECUTIVE ENGINEER (ELECL)
Yelahanaka Zone, BBMP

Administrative Sanction for Rs. 10.00 LAKHS
TEN LAKHS ONLY
is accorded under head P0190 WORKS
SANCTIONED BY HON MAYOR
Registered as EE No. DALENO. 58 AND 59 Subject
to conditions contained in enclosed memo
No. EE/ELE/YZ/AS/08/17-18 Dt 04.09.17

Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 10.00 LAKHS
Rupees TEN LAKHS ONLY
Under P0190 WORKS SANCTIONED
BY HON MAYOR
Registered as EE ( ) No. DALENO. 80 AND 81...9 9
Subject to conditions contained in
enclosed memo EE ( ) No. EE/ELE/YZ/TS/06/17-18
Dt. 04.09.2017 Estimate AA Sanctioned
EE/ELE/YZ/AS/08/ 2017-18
Dated 04.09.2017 Rs. 10.00 LAKHS

Executive Engineer